Cardiovascular, Pharmacology and chemistry

#174R3

Committee:
Dr. Cattell, Chairman
Dr. Reimann
Dr. Bing
Dr. Lynch

#174 activated 2/1/58
#174R1 activated 2/1/59
#174R2 activated 2/1.60

TOBACCO INDUSTRY RESEARCH COMMITTEE

150 East Forty-second Street New York, New York

Application For Research Grant

October 26, 1960

1. Name of Investigator: Henry C. McGill, Jr., M.D.

2. Title: Professor and Head, Department of Pathology

3. Institution & Address: Louisiana State University - School of Medicine
1542 Tulane Avenue
New Orleans 12, Louisiana

4. Project or Subject: Relationship of Smoking, Alcohol, and Physical Activity to Coronary Atherosclerotic Lesions.

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5. Detailed Plan of Procedure:

PURPOSE - The purpose of this study is to determine the relationship between coronary artery atherosclerotic lesions and certain lifetime habits.

MATERIALS AND METHODS - The study cases will include 200 white and Negro males and females, ages 20 to 69, autopsied at Charity Hospital and Office of the Coroner, Orleans Parish. Approximately half of these will be accidental and traumatic deaths, which represent the best possible sample of the living population.

At autopsy the coronary arteries are dissected from the heart, opened and flattened on cardboard, fixed in formalin, stained grossly with a fat stain and sealed in plastic bags for examination and storage. The extent of fatty streaks, fibrous plaques, complicated lesions and calcified plaques in each of the major branches of the coronary arteries will be graded by visual estimation and by electronic flying spot image analysis of photographic and soft tissue X-ray transparencies of the specimens.

Smoking habits, alcohol intake and physical activity of each autopsied case in the study will be investigated by interviewing the closest survivor with a standard questionnaire which has been designed with the assistance of a biostatistician and other experts in questionnaire design. The questionnaire is now being checked on living subjects and their families to test the validity of recall of a family member as to habits of another member. Other tests of the validity of this type of recall will be made during the definitive study. Each subject will be ranked according to each of a number of different measures of tobacco usage, alcohol intake, and physical activity.

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Finally, statistical tests for degree of correlation between each measure of lifetime habits and each measure of coronary artery lesions will be carried out.

6. Budget Plan: (Budget for one year).

Salaries	$ 9,828.00
Expendable Supplies	600.00
Travel for Field Interviewer	800.00
Overhead (15%)	1,864.00
Other (Statistical Services)	1,200.00
Total	$14,292.00

7. Anticipated Duration of Work:

Two years minimum.

8. Facilities and Staff Available:

Facilities include the necropsy services of the L.S.U. Service at Charity Hospital and of the Office of the Coroner, Orleans Parish; a technical staff of four individuals (support for one of which is requested in this application) who collect the anatomic specimens and process them; a biophysicist and his technical assistant, who operated the electronic grading apparatus; and biostatistical services and consultation from Dr. C. A. McMahan of the Biostatistics Division of the Department of Public Health and Preventive Medicine.

9. Additional Requirements:

None

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10. Additional Information:

This study is part of a much larger study of the natural history and epidemiology of atherosclerotic lesions being carried on by this laboratory in cooperation with 11 other pathology laboratories in Central and South America and Africa. All of the equipment and information gained from this larger study will be used to some degree in the execution of this project. Paralleling this study of smoking, alcohol and physical activity in relation to atherosclerotic lesions will be a study of the dietary habits of the same individuals being carried out by the Nutrition Division of the Louisiana State Department of Health. The major portion of this work is being supported by the National Heart Institute of the U. S. Public Health Service in grants to L.S.U. and to the Pan American Sanitary Bureau.

This project will be under the immediate supervision of Dr. Jack P. Strong, Associate Professor of Pathology and Senior Research Fellow of the USPHS.

/s/ Henry C. McGill, Jr., M.D.
Director of Project

/s/ _____
Business Officer of the Institution

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